

AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

1-50. (Cancelled)

51. (Currently Amended) An in vivo device comprising:

a plurality of optical windows ~~behind each of which are positioned, at least, each window covering at least~~ an illumination source and an imager, said optical windows facing different directions.

52. (Previously Presented) The device according to claim 51 wherein said windows are arranged in opposing directions.

53. (Previously Presented) The device according to claim 51 wherein each window is dome shaped.

54. (Previously Presented) The device according to claim 51 comprising a lens positioned behind the optical windows.

55. (Previously Presented) The device according to claim 51 comprising a lens positioned between an imager and an optical window.

56. (Previously Presented) The device according to claim 51 comprising a plurality of illumination sources and a plurality of imagers, wherein an illumination source and an imager are positioned behind each optical window.

57. (Previously Presented) The device according to claim 51 comprising a transmitter.

58. (Previously Presented) The device according to claim 57 wherein the transmitter transmits over a single channel.

59. (Previously Presented) The device according to claim 57 wherein the transmitter transmits over multiple channels.

60. (Previously Presented) The device according to claim 51 wherein the device is capsule shaped.

61. (Currently Amended) A system for in vivo imaging, said system comprising:
an in vivo imaging device, said device containing within it at least:
a plurality of optical windows; and

a plurality of imagers and illumination sources facing different directions, each optical window covering at least one imager and illumination source ~~behind each of the plurality of optical windows~~; and

an external receiver for receiving signals from the in vivo imaging device.

62. (Previously Presented) The system according to claim 61 wherein the in vivo imaging device comprises a transmitter.

63. (Currently Amended) A method for in vivo imaging of a body lumen, the method comprising the steps of:

illuminating in vivo sites from behind at least two optical windows;

obtaining images of the in vivo sites from each of the at least two optical windows, there being ~~behind~~ covered by each optical window at least an imager and an illumination source; and

transmitting signals from within the body lumen.

64. (Previously Presented) The method according to claim 63 comprising the step of illuminating the in vivo sites from different directions.

65. (Previously Presented) The method according to claim 63 comprising obtaining images of the in vivo sites from at least two imagers.

66. (Previously Presented) The method according to claim 63 comprising obtaining images from a front and from a rear of an in vivo imaging device.

67. (Previously Presented) The method according to claim 63 comprising transmitting signals over a radio channel.

68. (Currently Amended) An in vivo device comprising:

a plurality of illumination sources and a plurality of imagers; and

a plurality of optical domes, ~~behind each of which are positioned each~~ covering an illumination source and an imager, each of said optical domes facing opposite directions.

69. (Previously Presented) The device according to claim 68 comprising a lens positioned between an imager and an optical dome.

70. (Previously Presented) The device according to claim 68 comprising a transmitter.

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71. (Previously Presented) The device according to claim 68 wherein said device is capsule shaped.